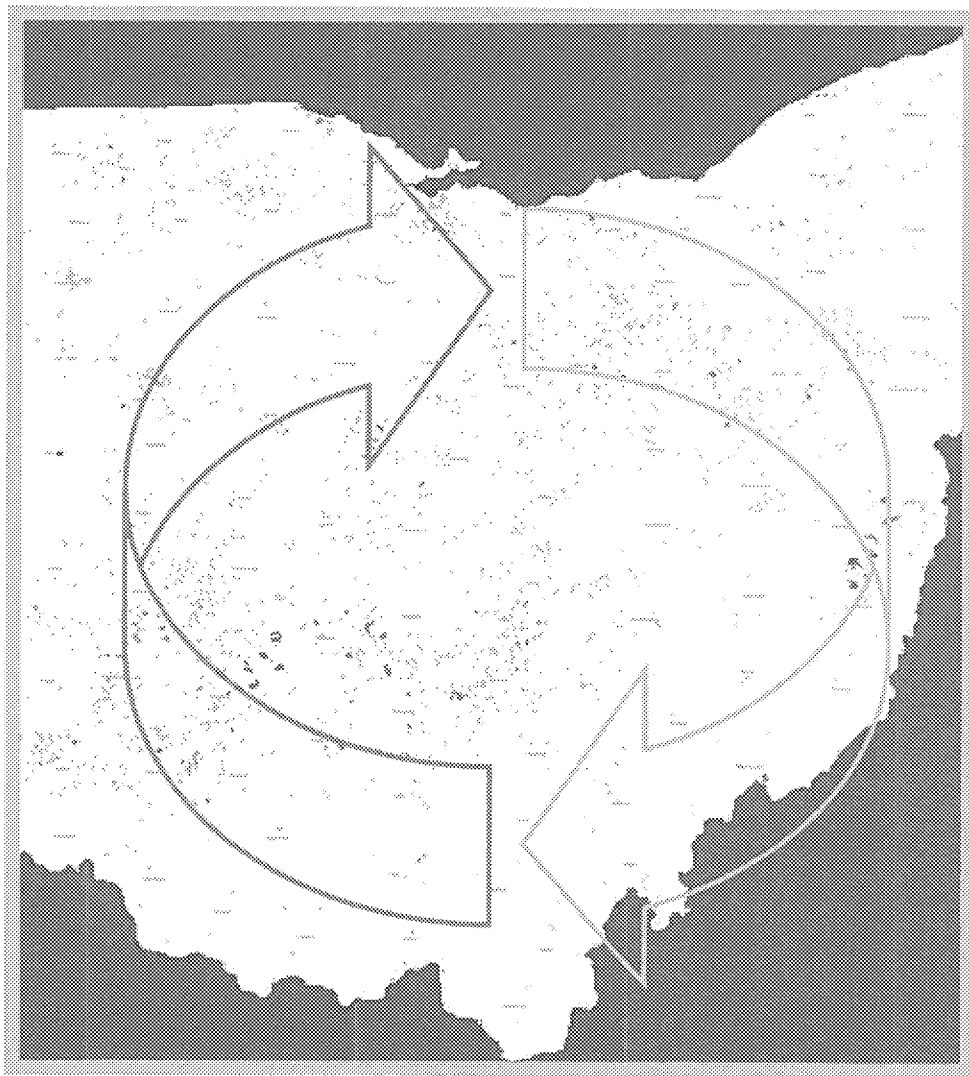


Division of Surface Water

Application for Transfer Class B Biosolids Beneficial Use Sites



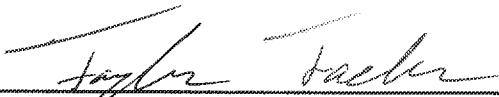
Division of Surface Water
Beneficial Use Site Transfer Request
Class B Beneficial Use Sites

Biosolids Treatment Works Information

Treatment works name: <u>Dovetail Energy</u>		
Ohio NPDES permit #: <u>1IN00305*AD</u>	County: <u>Greene</u>	
Mailing address: <u>1146 Herr Road</u>		
City: <u>Fairborn</u>	State: <u>OH</u>	Zip: <u>45324</u>
Operator of record: <u>Taylor Faecher</u>		
Telephone number: <u>(513) 476-1663</u>		
Email address: <u>info@renergy.com</u>		

Certification Statement

1. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.
2. I have read and understand Chapter 3745-40 of the Ohio Administrative Code (OAC) and I agree to beneficially use biosolids in accordance with all applicable beneficial use requirements and restrictions established.
3. I agree to only beneficially use biosolids that have satisfied a pathogen reduction alternative and a vector attraction reduction option and have metals concentration below the pollutant ceiling concentrations as established in Chapter 3745-40 of the Ohio Administrative Code.
4. I agree to maintain all applicable records established in Chapter 3745-40 of the Ohio Administrative Code.



Signature

8 / 16 / 17

Date

This form shall be signed by the operator of record for the treatment works, be an original signature, not a copy, and must be less than one year old at the time the application for transfer is submitted to Ohio EPA for review.

Division of Surface Water
Beneficial Use Site Transfer Request
Class B Beneficial Use Sites

Previous Biosolids Treatment Works Information

Treatment works name: <u>Yellow Springs WWTP</u>		
Ohio NPDES permit #: <u>1PC00013</u>	County: <u>Greene</u>	
Mailing address: <u>3835 Grinnell Road</u>		
City: <u>Yellow Springs</u>	State: <u>OH</u>	Zip: <u>45387</u>
Operator of record:		
Telephone number:		
Email address:		

Notification Statement

1. I certify that I have been informed of the potential transfer of the biosolids beneficial use sites detailed within the application for transfer.
2. I agree to maintain all applicable records established in Chapter 3745-40 of the Ohio Administrative Code.


Signature¹

08 / 14 / 17
Date

Original signatures, not copies, must be less than one year old at the time the application for transfer is submitted to Ohio EPA for review.

¹ This form shall be signed by the operator of record for the previous treatment works.

Division of Surface Water
Beneficial Use Site Transfer Request
Class B Beneficial Use Sites

Owner Consent for Beneficial Use

Beneficial use site owner ¹ : <u>Lukhart Farms</u>		
Mailing address: <u>1782 Fawcett Rd</u>		
City: <u>Xenia</u>	State: <u>Oh</u>	Zip: <u>45385</u>
Telephone number: <u>937-903-7688</u>		
Email address: <u>lukhartbuffalofarm@gmail.com</u>		

Certification Statement

1. I agree to allow biosolids generated by the treatment plant identified on Form AFT-1 to be beneficially used on my property at agronomic rates.
2. I understand that the treatment plant that was previously authorized to beneficially use Class B biosolids on the site(s) identified in this application will no longer be authorized to beneficially use Class B biosolids on the site(s) identified in this application.
3. I agree to allow federal, state and local regulatory staff access to the beneficial use site for the purposes of inspecting and authorizing the beneficial use site, beneficially using biosolids, collecting and analyzing samples from the beneficial use site. I reserve the right to ask the above parties for proper identification at any time.
4. I certify that I am holder of legal title to the property described on application form AFT-4 or am authorized by the holder to give consent for the land application of biosolids and that there are no restrictions to the granting of consent under this form.


Signature² Dan Lukhart Farms

8 / 16 / 17
Date

Original signatures, not copies, must be less than one year old at the time the application for transfer is submitted to Ohio EPA for review.

¹For purposes of this form, "beneficial use site owner" means the person who owns the legal rights to the proposed beneficial use site.

²In the event the owner of the beneficial use site changes, Form AFT-3 must be revised and resubmitted to Ohio EPA.

Division of Surface Water
Beneficial Use Site Transfer Request
Class B Beneficial Use Sites


Form AFT-3

Beneficial Use Site Operator Consent for Beneficial Use

Beneficial use site operator ¹ : Dave Linkhart		
Mailing address: 1782 Fawcett Rd		
City: Xenia	State: Oh	Zip: 45385
Telephone number: 937-903-7688		
Email address: linkhartbuffalo farm@gmail.com		

Certification Statement

I agree to be responsible for complying with all applicable beneficial use requirements established in Chapter 3745-40 of the Ohio Administrative Code.


Signature²

8 / 16 / 12
Date

Original signatures, not copies, must be less than one year old at the time the application for transfer is submitted to Ohio EPA for review.

¹ For purposes of this form, "beneficial use site operator" means the person who plants, grows, harvests or otherwise manages feed crops, fiber crops, food crops or pasture land on the proposed beneficial use site.

² In the event the operator of the beneficial use site changes, Form AFT-4 must be revised and resubmitted to Ohio EPA.

Division of Surface Water
Beneficial Use Site Transfer Request
Class B Beneficial Use Sites


Form AFT-4

Beneficial User Information

Beneficial user ¹ : <u>Dovetail Energy</u>		
Contact person: <u>Taylor Faecher</u>		
Mailing address: <u>1146 Herr Road</u>		
City: <u>Fairborn</u>	State: <u>OH</u>	Zip: <u>45324</u>
Telephone number: <u>(513) 476-1663</u>		
Email address: <u>tfaecher@renergy.com</u>		

Certification Statement

I agree to be responsible for complying with all applicable beneficial use requirements established in Chapter 3745-40 of the Ohio Administrative Code.



Signature

8, 16, 17

Date

Original signatures, not copies, must be less than one year old at the time the application for transfer is submitted to Ohio EPA for review.

¹ For purposes of this form, the beneficial user means the person who sprays or spreads Class B biosolids onto the surface of the beneficial use site, injects below the surface of the beneficial use site, or incorporates into the soil of the beneficial use site, for the purpose of providing an agronomic benefit.

² In the event the beneficial user of the beneficial use site changes, Form AFT-5 must be revised and resubmitted to Ohio EPA.

Division of Surface Water
Beneficial Use Site Transfer Request
Class B Beneficial Use Sites

Form AFT-5

Current Beneficial Use Site Information

Ohio EPA site I.D.: <u>29-00033</u>
Field site I.D.: <u>LINK-16</u>
County: <u>Greene</u> Township: <u>Xenia</u>
Treatment works name: <u>Yellow Springs WWTP</u>
Ohio NPDES permit #: <u>1PC00013</u>

Date of Last Beneficial Use	Agronomic Rate (dry tons/acre)	Soil Phosphorus			Agronomic Rate Utilized (Check Only One)
		Date of Soil Analysis	Result (PPM)	Analysis Method (Check Only One)	
<u>1993</u>		<u>9/1/2017</u>	<u>21</u>	<input type="checkbox"/> Bray-Kurtz P1 <input checked="" type="checkbox"/> Mehlich 3	Nitrogen <250 lb/acre P ₂ O ₅ 256 - 500 lb/acre P ₂ O ₅ Single-Year P ₂ O ₅ Multi-Year P ₂ O ₅ P-Index

A copy of the agronomic rate calculation performed for the most recent beneficial use event must be included.

Is this beneficial use site subject to cumulative loading rates (CPLR)?	Pollutant	CPLR to date (lb/acre)
<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", the table must be completed.	Arsenic	
	Cadmium	
	Copper	
	Lead	
	Mercury	
	Molybdenum	
	Nickel	
	Selenium	

Division of Surface Water
Beneficial Use Site Transfer Request
Class B Beneficial Use Sites

	Zinc	
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Form AFT-6

New Beneficial Use Site Information

Field site I.D.: <u>GRS-12-02</u>															
Latitude: <u>39.71522</u>	Longitude: <u>-83.8969</u>														
Type of crops to be grown:															
	<table border="1"><thead><tr><th>Crop Type</th><th>Expected Yield</th></tr></thead><tbody><tr><td>Corn</td><td>1 7 0</td></tr><tr><td>Soybeans</td><td>5 5</td></tr><tr><td>Wheat</td><td></td></tr><tr><td>Pasture</td><td></td></tr><tr><td>Hay</td><td></td></tr><tr><td>Other:</td><td></td></tr></tbody></table>	Crop Type	Expected Yield	Corn	1 7 0	Soybeans	5 5	Wheat		Pasture		Hay		Other:	
Crop Type	Expected Yield														
Corn	1 7 0														
Soybeans	5 5														
Wheat															
Pasture															
Hay															
Other:															

The application must also include all of the following:

- ☐ An aerial map of the beneficial use site that clearly identifies the entrance of the beneficial use site from the nearest road and all applicable isolation distances as established in Chapter 3745-40 of the Ohio Administrative Code;
- ☐ A vicinity road map at or near the township level that clearly identifies the beneficial use site with all roads labeled;
- ☐ A copy of the agronomic rate calculation performed for the most recent beneficial use event on the beneficial use site; and
- ☐ A copy of the most recent soil test results identified in this form.

Division of Surface Water
Beneficial Use Site Transfer Request
Class B Beneficial Use Sites

Form AFT-5

Current Beneficial Use Site Information

Ohio EPA site I.D.: <u>29-00427</u>
Field site I.D.: <u>GR-YS-03</u>
County: <u>Greene</u> Township: <u>Xenia</u>
Treatment works name: <u>Yellow Springs WWTP</u>
Ohio NPDES permit #: <u>1PC00013</u>

Date of Last Beneficial Use	Agronomic Rate (dry tons/acre)	Soil Phosphorus			Agronomic Rate Utilized (Check Only One)
		Date of Soil Analysis	Result (PPM)	Analysis Method (Check Only One)	
<u>1993</u>		<u>9/1/2017</u>	<u>21</u>	<input type="checkbox"/> Bray-Kurtz P1 <input checked="" type="checkbox"/> Mehlich 3	Nitrogen <250 lb/acre P ₂ O ₅ Single-Year P ₂ O ₅ 256 - 500 lb/acre P ₂ O ₅ Multi-Year P ₂ O ₅ P-Index

A copy of the agronomic rate calculation performed for the most recent beneficial use event must be included.

Is this beneficial use site subject to cumulative loading rates (CPLR)?	Pollutant	CPLR to date (lb/acre)
<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", the table must be completed.	Arsenic	
	Cadmium	
	Copper	
	Lead	
	Mercury	
	Molybdenum	
	Nickel	
	Selenium	

Division of Surface Water
Beneficial Use Site Transfer Request
Class B Beneficial Use Sites

	Zinc	
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Form AFT-6

New Beneficial Use Site Information

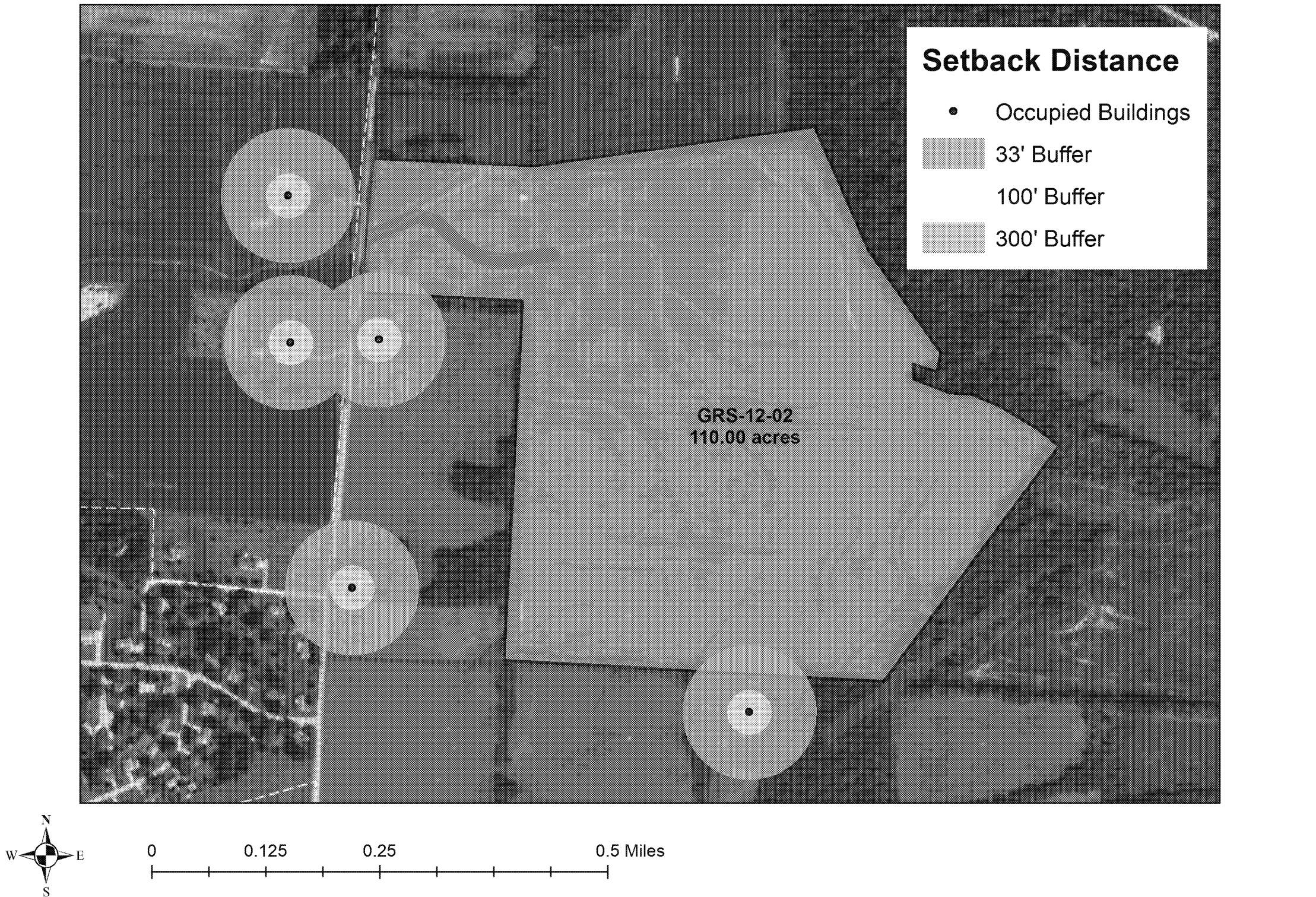
Field site I.D.: <u>GRS-12-02</u>															
Latitude: <u>39.71879</u>	Longitude: <u>-83.90138</u>														
Type of crops to be grown:															
	<table border="1"><thead><tr><th>Crop Type</th><th>Expected Yield</th></tr></thead><tbody><tr><td>Corn</td><td>1 7 0</td></tr><tr><td>Soybeans</td><td>5 5</td></tr><tr><td>Wheat</td><td></td></tr><tr><td>Pasture</td><td></td></tr><tr><td>Hay</td><td></td></tr><tr><td>Other:</td><td></td></tr></tbody></table>	Crop Type	Expected Yield	Corn	1 7 0	Soybeans	5 5	Wheat		Pasture		Hay		Other:	
Crop Type	Expected Yield														
Corn	1 7 0														
Soybeans	5 5														
Wheat															
Pasture															
Hay															
Other:															

The application must also include all of the following:

- ☐ An aerial map of the beneficial use site that clearly identifies the entrance of the beneficial use site from the nearest road and all applicable isolation distances as established in Chapter 3745-40 of the Ohio Administrative Code;
- ☐ A vicinity road map at or near the township level that clearly identifies the beneficial use site with all roads labeled;
- ☐ A copy of the agronomic rate calculation performed for the most recent beneficial use event on the beneficial use site; and
- ☐ A copy of the most recent soil test results identified in this form.



GRS-12-02 Setback Distance



Setback Distance		
GRS-12-02		
Total Area: 110.00 acres		
Setbacks:		
	Residence - 300' Buffer	1.56 acres
	Residence - 100' Buffer	0 acres
	Surface Waters - 33' Buffer	1.76 acres
	Total Setback Area:	3.32 acres

Soil Map



Map Unit Legend

Greene County, Ohio (OH057)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CeA	Celina silt loam, 0 to 2 percent slopes	3.9	3.6%
CrA	Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	1.6	1.5%
Ee	Eel loam	1.9	1.7%
MhB	Miamian silt loam, 2 to 6 percent slopes	26.6	24.2%
MhB2	Miamian silt loam, 2 to 6 percent slopes, eroded	15.7	14.3%
MhC2	Miamian silt loam, 6 to 12 percent slopes, moderately eroded	30.7	27.9%
MhD2	Miamian silt loam, 12 to 18 percent slopes, eroded	0.4	0.3%
MIB3	Miamian clay loam, 2 to 6 percent slopes, severely eroded	1.9	1.8%
MID3	Miamian clay loam, shallow to dense till substratum, 12 to 18 percent slopes, severely eroded	0.0	0.0%
MtB	Milton silt loam, 2 to 6 percent slopes	9.1	8.3%
MtC2	Milton silt loam, 6 to 12 percent slopes, moderately eroded	0.5	0.5%
OcB	Ockley silt loam, Southern Ohio Till Plain, 2 to 6 percent slopes	17.6	16.0%
Totals for Area of Interest		110.0	100.0%

Map—Depth to Any Soil Restrictive Layer



Table—Depth to Any Soil Restrictive Layer

Depth to Any Soil Restrictive Layer— Summary by Map Unit — Greene County, Ohio (OH057)				
Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
CeA	Celina silt loam, 0 to 2 percent slopes	76	3.9	3.6%
CrA	Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	91	1.6	1.5%
Ee	Eel loam	>200	1.9	1.7%
MhB	Miamian silt loam, 2 to 6 percent slopes	91	26.6	24.2%
MhB2	Miamian silt loam, 2 to 6 percent slopes, eroded	84	15.7	14.3%
MhC2	Miamian silt loam, 6 to 12 percent slopes, moderately eroded	>200	30.7	27.9%
MhD2	Miamian silt loam, 12 to 18 percent slopes, eroded	69	0.4	0.3%
MIB3	Miamian clay loam, 2 to 6 percent slopes, severely eroded	>200	1.9	1.8%
MID3	Miamian clay loam, shallow to dense till substratum, 12 to 18 percent slopes, severely eroded	42	0.0	0.0%
MtB	Milton silt loam, 2 to 6 percent slopes	76	9.1	8.3%
MtC2	Milton silt loam, 6 to 12 percent slopes, moderately eroded	76	0.5	0.5%
OcB	Ockley silt loam, Southern Ohio Till Plain, 2 to 6 percent slopes	168	17.6	16.0%
Totals for Area of Interest			110.0	100.0%

Map—Hydrologic Soil Group



Table—Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Greene County, Ohio (OH057)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CeA	Celina silt loam, 0 to 2 percent slopes	C/D	3.9	3.6%
CrA	Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	C/D	1.6	1.5%
Ee	Eel loam	C	1.9	1.7%
MhB	Miamian silt loam, 2 to 6 percent slopes	C	26.6	24.2%
MhB2	Miamian silt loam, 2 to 6 percent slopes, eroded	C	15.7	14.3%
MhC2	Miamian silt loam, 6 to 12 percent slopes, moderately eroded	C	30.7	27.9%
MhD2	Miamian silt loam, 12 to 18 percent slopes, eroded	C	0.4	0.3%
MIB3	Miamian clay loam, 2 to 6 percent slopes, severely eroded	C	1.9	1.8%
MID3	Miamian clay loam, shallow to dense till substratum, 12 to 18 percent slopes, severely eroded	D	0.0	0.0%
MtB	Milton silt loam, 2 to 6 percent slopes	C	9.1	8.3%
MtC2	Milton silt loam, 6 to 12 percent slopes, moderately eroded	C	0.5	0.5%
OcB	Ockley silt loam, Southern Ohio Till Plain, 2 to 6 percent slopes	B	17.6	16.0%
Totals for Area of Interest			110.0	100.0%

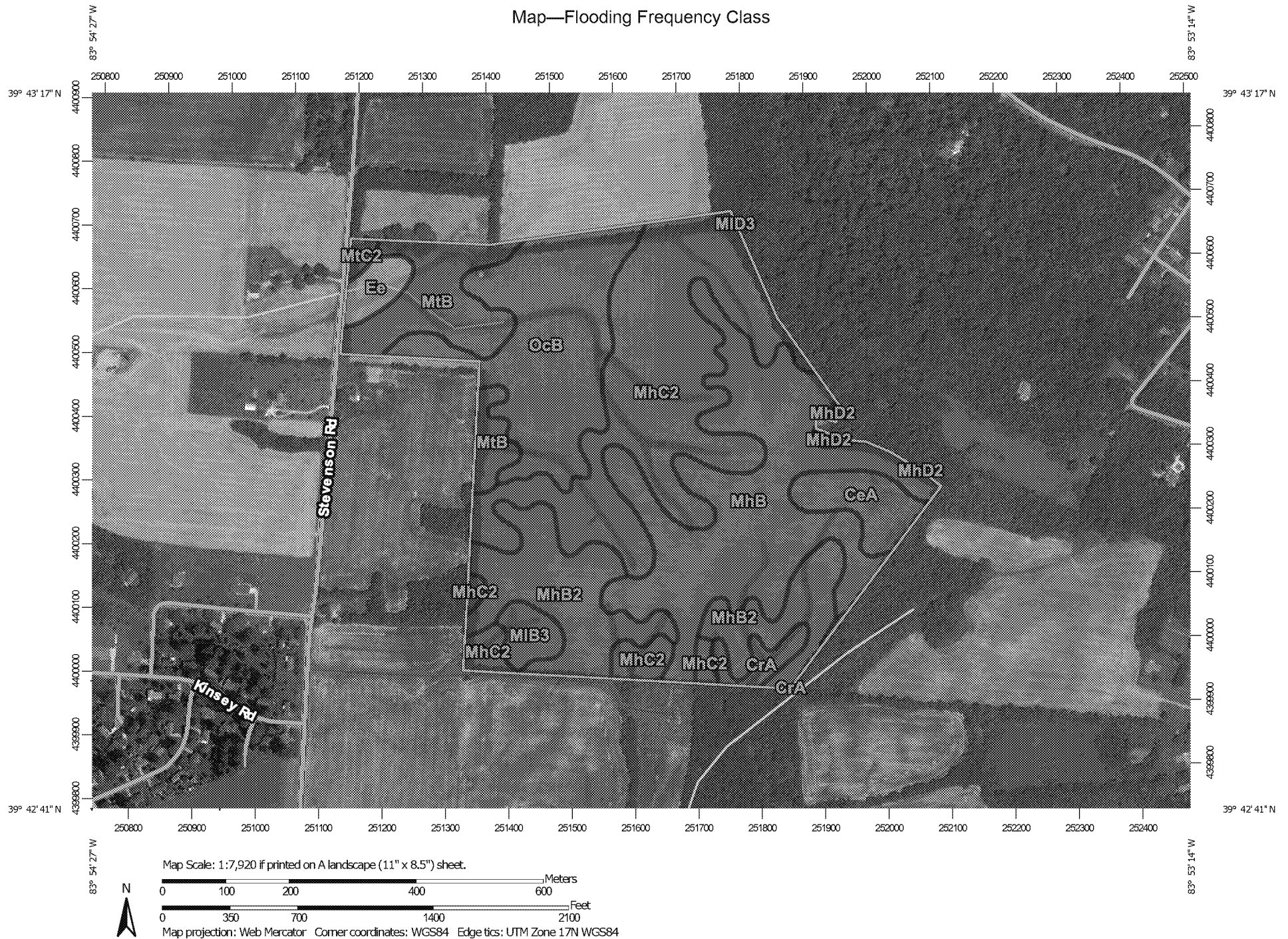
Map—Depth to Any Soil Restrictive Layer



Table—Depth to Any Soil Restrictive Layer

Depth to Any Soil Restrictive Layer— Summary by Map Unit — Greene County, Ohio (OH057)				
Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
CeA	Celina silt loam, 0 to 2 percent slopes	76	3.9	3.6%
CrA	Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	91	1.6	1.5%
Ee	Eel loam	>200	1.9	1.7%
MhB	Miamian silt loam, 2 to 6 percent slopes	91	26.6	24.2%
MhB2	Miamian silt loam, 2 to 6 percent slopes, eroded	84	15.7	14.3%
MhC2	Miamian silt loam, 6 to 12 percent slopes, moderately eroded	>200	30.7	27.9%
MhD2	Miamian silt loam, 12 to 18 percent slopes, eroded	69	0.4	0.3%
MIB3	Miamian clay loam, 2 to 6 percent slopes, severely eroded	>200	1.9	1.8%
MID3	Miamian clay loam, shallow to dense till substratum, 12 to 18 percent slopes, severely eroded	42	0.0	0.0%
MtB	Milton silt loam, 2 to 6 percent slopes	76	9.1	8.3%
MtC2	Milton silt loam, 6 to 12 percent slopes, moderately eroded	76	0.5	0.5%
OcB	Ockley silt loam, Southern Ohio Till Plain, 2 to 6 percent slopes	168	17.6	16.0%
Totals for Area of Interest			110.0	100.0%

Map—Flooding Frequency Class



Table—Flooding Frequency Class

Flooding Frequency Class— Summary by Map Unit — Greene County, Ohio (OH057)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CeA	Celina silt loam, 0 to 2 percent slopes	None	3.9	3.6%
CrA	Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	None	1.6	1.5%
Ee	Eel loam	Frequent	1.9	1.7%
MhB	Miamian silt loam, 2 to 6 percent slopes	None	26.6	24.2%
MhB2	Miamian silt loam, 2 to 6 percent slopes, eroded	None	15.7	14.3%
MhC2	Miamian silt loam, 6 to 12 percent slopes, moderately eroded	None	30.7	27.9%
MhD2	Miamian silt loam, 12 to 18 percent slopes, eroded	None	0.4	0.3%
MIB3	Miamian clay loam, 2 to 6 percent slopes, severely eroded	None	1.9	1.8%
MID3	Miamian clay loam, shallow to dense till substratum, 12 to 18 percent slopes, severely eroded	None	0.0	0.0%
MtB	Milton silt loam, 2 to 6 percent slopes	None	9.1	8.3%
MtC2	Milton silt loam, 6 to 12 percent slopes, moderately eroded	None	0.5	0.5%
OcB	Ockley silt loam, Southern Ohio Till Plain, 2 to 6 percent slopes	None	17.6	16.0%
Totals for Area of Interest			110.0	100.0%

SOIL AUDIT AND INVENTORY REPORT

Name Dovetail Bio Energy City Fairborn State OHIndependent Consultant Brookside Consultants of Ohio, Inc. Date 09/01/2017

Sample Location		GRS-12-02	-					
Sample Identification								
Lab Number			0017-1					
Total Exchange Capacity (ME/100 g)			15.11					
pH (H ₂ O 1:1)			6.8					
Organic Matter (360°C LOI) %			3.97					
Estimated Nitrogen Release lb/A			90					
ANIONS	SOLUBLE SULFUR* ppm		10					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	96					
			ppm of P	21				
		BRAY II lb/A P as P ₂ O ₅	160					
			ppm of P	35				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	41.62					
		ppm	2081					
	MAGNESIUM*	lb/A	7.48					
		ppm	374					
	POTASSIUM*	lb/A	2.92					
	ppm	146						
	SODIUM*	lb/A	30					
	ppm	15						
BASE SATURATION PERCENT								
	Calcium	%	68.86					
	Magnesium	%	20.63					
	Potassium	%	2.48					
	Sodium	%	0.43					
	Other Bases	%	4.60					
	Hydrogen	%	3.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.72					
	Iron* (ppm)		162					
	Manganese* (ppm)		176					
	Copper* (ppm)		2.37					
	Zinc* (ppm)		4.60					
	Aluminum* (ppm)		483					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable